

DOCKETED

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HD/MD Electrification: Market Outlook

Alexander Voets / Daimler Trucks NA eMobility Group / May 20, 2020



Run Smart™

Michigan Welcomes First Electric School Buses

By Ryan Gray - September 12, 2019



Daimler Trucks sets up E-Mobility Group. Two electric trucks for the U.S. market presented

Daimler Trucks establishes a global for that also a new management p Market & Technology Days in the electric trucks by it

APRIL 24

Daimler to ma converted Por

Phil Dzikiy - Apr. 24th 2019 4:37 pm ET



erial electric truck producti

TRIC TRUCKS | EM2 | FREIGHTLINER | OREGON | PORTLAND

ler Trucks North America (DTNA) announced its plan to c and plant in Oregon for the production of electric trucks ut er next year. Serial production of the eM2 and eCascadia r in 2021.

decision fell in favour of Portland because of its proximity to ornia, Daimler Trucks said. In addition to production, the Po host a battery storage facility and an electric vehicle co-creat e the team will work with customers. The idea is to help tra truck," states DTNA.

rst time in mid-2018. As far as the technical details of the two liner eCascadia is an electric offshoot of the Cascadia long-hau kW. The 550 kWh battery used in the truck should be recharge total weight of over 15 tons.



Daimler Trucks Delivers Its First Electric Freightliner to Penske

December 21, 2018 by Susan Carpenter, @CarpenterWheels



Daimler delivers its first electric Freightliner eCascadia to US customers



The big truck makers are starting to take electric trucks seriously

Katie Fehrenbacher Thursday, April 25, 2019 - 2:00am



Daimler Trucks CEO Roger Nielsen speaks at the ACT Expo on electric trucks

Dominion chooses 50 electric Thomas Built Buses powered by Proterra

The new electric school buses are part of a pilot program with a goal to integrate 13,000 Virginia buses into the state's power grid as an energy storage resource.

DECEMBER 17, 2019 JOHN WEAVER



Thomas Built Buses

Daimler will convert Portland facto make electric trucks

Updated Apr 24, 2019; Posted Apr 24, 2019



Daimler's eCascadia electric truck.



J.B. Hunt has added five Fuso eCarter electric trucks to its Final Mile Services division. Photo courtesy J.B. Hunt.

has delivered its first all-electric Freightliner truck to P its 'innovation fleet'. Daimler, one of the world's largest truck makers, has been feeling pressure from Tesla's electric truck - going as far as saying if the claims Tesla is making about its electric semi truck are they are breaking the laws of physics.

Press Contac

Center Electric

The Motivation for Battery-Electric Fleets



Environmental
Factors



Cost of
Ownership

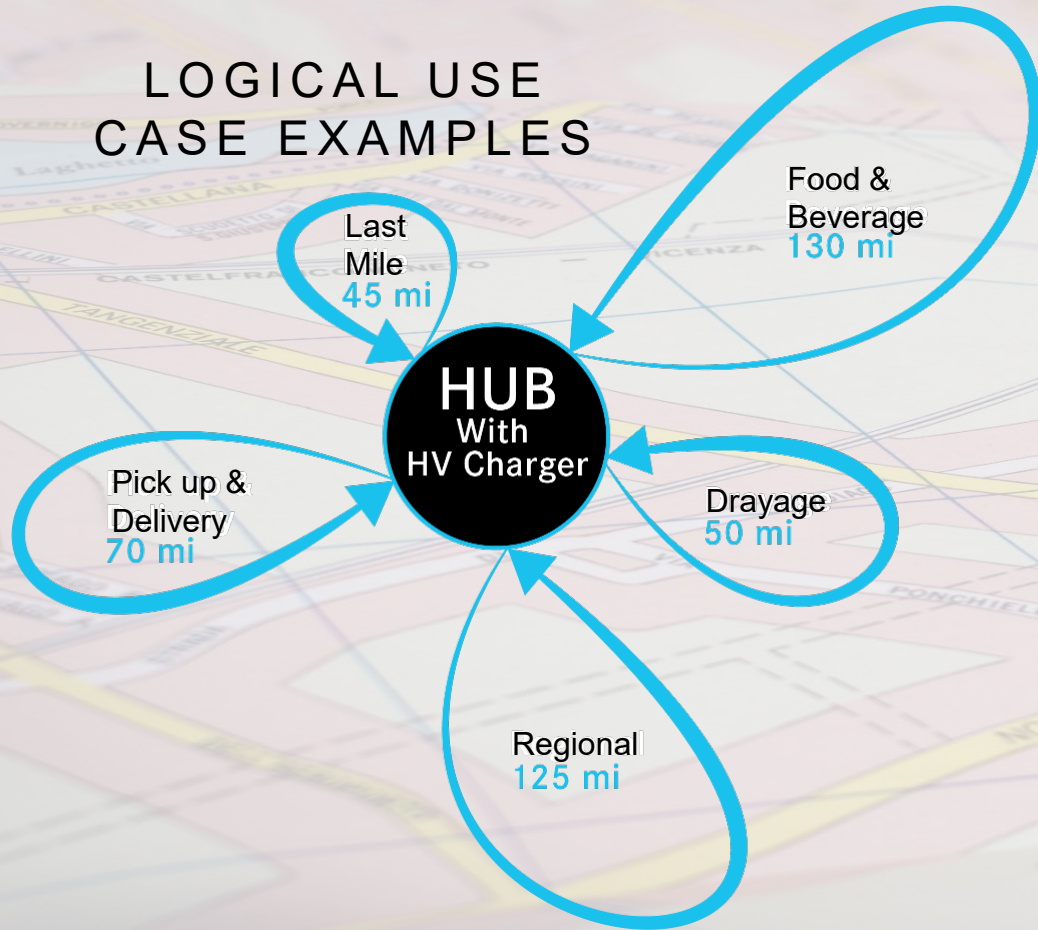


Policy &
Regulations



First Target Application: Dedicated, Repeatable Routes

LOGICAL USE CASE EXAMPLES



Benefits:

- Reduce noise/air pollution & greenhouse gasses at tailpipe
- Specific regional advantages i.e. taxes, incentives, parking
- Innovative vehicles with sustainable technology
- Improved driver experience and increased driver retention

Leading the Charge, Gaining Knowledge and Global Production Network to “Electrify” the Future



Why is the commercial launch not until end of 2021?



Testing

We need to accumulate test miles to ensure the product is safe and reliable. We have the largest fleet of electric commercial vehicles on the road globally.



Safety Standards

We go through rigorous testing, redesigning and retesting to ensure a safe product – no compromise. This includes designing for side crash impacts, battery emergency shut off, submerging batteries under water and adhering to voluntary safety standards for commercial vehicles. (ISO 26262, MBN123, ECE-R100)



Reliability

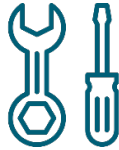
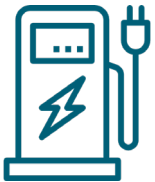
Having trucks on the road is your business. Reliability in all use cases - not only optimal scenarios – is in our DNA and we are accumulating test miles to ensure all parts are reliable in the long run and all conditions.



Service Network

We have the largest network for commercial vehicles in North America. You need to have assurance that your truck will get service and is back on the road quickly. We are working with our dealer network to ensure service readiness.

Key considerations in your fleet electrification planning



Charging Infrastructure

Electric Truck

Incentives

Maintenance & Operations

Which charging infrastructure should I use?

Which routes can I electrify (load, range)?

What incentives are available to me (purchase/operation)?

Who maintains the truck and where?

What is my utilities lead time to install infrastructure?

Which depots/warehouses are best suited?

When do I have a payback?

THANK YOU.

eCASCADIA

A close-up photograph of the front of a white Freightliner truck. The focus is on the 'eCASCADIA' badge, which is mounted on the hood. The 'e' is a bright blue color, while the rest of the letters are silver. Below the badge, a portion of an amber-colored LED light is visible, which is illuminated, creating a warm glow. The background is a plain, light-colored surface.